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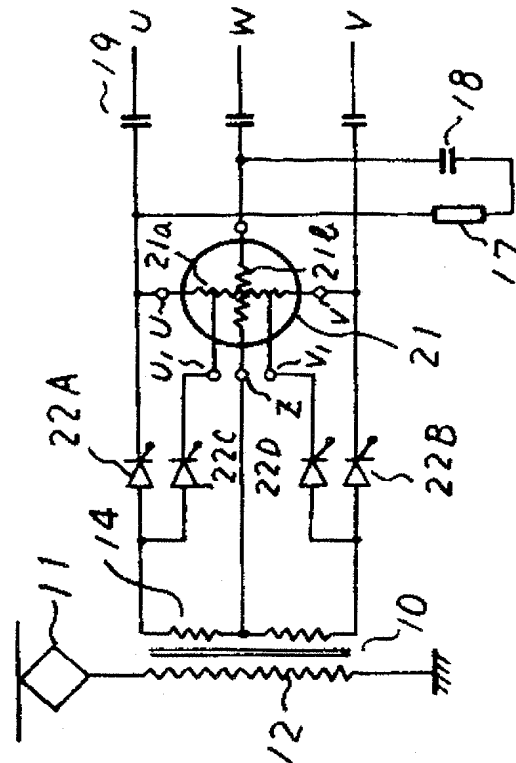
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TITLE : NUMBER-OF-PHASE CONVERTER



ABSTRACT : PURPOSE: To suppress the unbalance of a voltage of a load connected to a number-of-phase converter by providing a middle terminal having different winding distribution at the main winding of the converter and selectively connecting the output winding of a transformer to the main winding in response to the capacity of the load.

CONSTITUTION: A number-of-phase converter 21 has a U-V terminal, a main winding 21a including the middle terminal of  $U_1$ - $V_1$  and an auxiliary winding 21b including a Z-W terminal. The terminals U, V,  $U_1$ ,  $V_1$  of the winding 21a are respectively connected to the output winding and hence the tertiary winding 14 of a transformer 10 through changeover switches 22A-22D. When the capacity of a load is less, the switches 22C, 22B are closed to connect the terminals  $U_1$ ,  $V_1$  of the winding 21a to the tertiary winding 14 of the transformer 10. When the capacity of the load is large, the switches 22A, 22D are closed to connect the terminals U,  $V_1$  of the winding 21a to the tertiary winding 14 of the transformer 10. When the capacity of the load is middle, the switches 22A, 22B are closed to connect the terminals U, V of the winding 21a to the tertiary winding 14 of the transformer 10.

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